

In the Claims

1-58. (canceled).

59-71 (withdrawn)

72. (currently amended) A method for connecting a flexible electrode array comprising:

- a) removing a cover sheet from an electrode array, wherein the array has a generally sheet like connection end with a plurality of electrically conductive traces thereon;
- b) applying the electrode array to a patient;
- c) removing a release sheet from the electrode array; and
- d) operatively engaging ~~inserting~~ the connection end into a throat area of with a connector body to place, ~~wherein the traces in electrical communication with~~ engage a plurality of electrical contacts of the connector body in the throat area.

73. (currently amended) A The method according to claim 72, further comprising the step:

- e) clamping the connection end within a the throat area of the connector body wherein the traces are in electrical connection with the electrical contacts.

74. (currently amended) ~~A~~ The method according to claim 73, wherein each trace includes an electrical signal propagating therethrough, and further comprising the step:

- f) ~~Amplifying~~ amplifying each the electrical signal with an amplifier ~~a~~ buffer/amplifier in electrical connection with the electrical contacts.

75. (currently amended) ~~A~~ The method according to claim 72, further comprising the step:

- e) lifting a connection end tail flap of the electrode array to expose the electrically conductive traces.

76. (new) The method according to claim 73, wherein in (d) the connector body comprises a base member and a head member, wherein the throat area extends between the base member and the head member, wherein at least one of the base member and the head member is in operative connection with the electrical contacts, wherein the connector body further comprises a shaft member in operative connection with a cam surface, wherein (e) includes:

- f) rotating the shaft member axially;

- g) responsive to (f) causing with the cam surface the head member to move relative to the base member such that the connection end of the electrode array is clamped between the head member and the base member.

77. (new) The method according to claim 72, wherein in (a) the electrode array includes a flexible and generally electrically non-conductive substrate sheet, wherein the substrate sheet includes opposed first and second side surfaces, wherein the electrode array includes a plurality of electrically conductive electrodes in supporting connection with the first side surface of the substrate sheet, wherein the traces extend between the connection end and the electrodes, wherein (a) includes removing the cover sheet from the first side surface of the substrate sheet, wherein prior to (c) the release sheet is in releasably adhesive connection with portions of the second side surface of the substrate sheet which support the electrodes, wherein (c) includes removing the release sheet from the second side surface.

78. (new) The method according to claim 77, wherein in (a) the substrate sheet includes a plurality of perforations therethrough, wherein the perforations extend in generally surrounding relation of each of the electrodes and enable movement of each of the electrodes relative to each other, wherein the release sheet has a plurality of apertures therethrough, wherein portions of the release sheet between the apertures are in adhesive connection with the portions of the substrate sheet which support the electrodes.